

iPano RS232 Command Set

(July 2015)

Instruction Format

Start	Source	Client	Instruction	Data	End
1	1	1	3	0 ~ 33	1

Start Character: 1 digit (":")

Source machine code: 1 digit (0 ~ 8, 0: PC End, 1: Center iPano, 2:Wi-Fi End)

Client Unit: 1 digit (0 ~ 9, 0: PC End, 1: iPano, 2: Wi-Fi End, 9: broadcasting)

Instruction: 3 digit (if it is less than 3 character, followed by spaces)

Data : 0 ~ 33 digit

End Character: 1 digit (" # ")

RS-232 Port Settings

Baud Rate: 115200

Parity: none

Data bits: 8

Flow Control: none (does not support Xon/Xoff or hardware flow control)

Start Bits: 1

Stop Bits: 1

Mount Firmware and Type

Description: Get Firmware and Data Structure Version

Command: ":01FW0#"

Return: ":10FW0YYMMDDYYMMDD#"

First "YYMMDD" is firmware version, second is data structure version.

Description: Get Mount Type

Command: ":01INF#"

Return: ":10INFxxxx#"

xxxx: mount part number (3600: AllView Pro)

Mount Motion

Description: Move Mount

Command: ":01mvu#", ":01mvd#", ":01mvl#", ":01mvr#"

Return: none

Mount will start moving in specified direction after receive the instruction until a stop command is received.

mvu: moving upward,

mvd: moving downward,

mvl: moving left,

mvr: moving right

Description: Stop Moving in All Directions

Command: ":01mqq#"

Return: ":10mqq1#"

Stop moving in all directions.

Description: Stop Panning (azimuth) Motion

Command: ":01qAZ#"

Return: ":10qAZ1#"

The mount will stop moving along azimuth direction.

Description: Stop Tilting (altitude) Motion

Command: ":01qAL#"

Return: ":10qAL1#"

The mount will stop moving along altitude direction.

Description: GOTO

Command: ":01SSLnTTTTZZZZ#"

Return: ":10SSL1#"

n: sign, "+" or "-"

TTTT: altitude angle -18000~+18000 (X0.01 degree)

ZZZZ: azimuth angle 0~36000 (X0.01 degree)

Mount Set and Operation

Description: Shutter Test

Command: “:01SHT#”

Return: “:10SHT1#”

Test the camera shutter once based on pre-set parameters.

Description: Zero Position

Command: “:01SPZx#”

Return: “:10SPZ1#”

x: “0” return to Zero Position; “1” Set Zero Position.

Description: Set Reference Point

Command: “:01SOPx#”

Return: “:10SOP1#”

x: “0” reference point 0; “1” reference point 2.

Description: Start Panorama

Command: “:01SPAtd#”

Return: “:10SPA1#”

t: “0” preview;

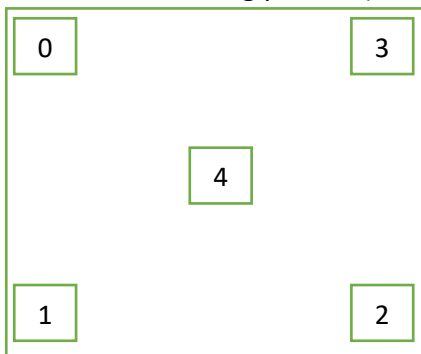
“1” matrix panorama;

“2” 360 panorama;

“3” time lapse.

d: when previewing (t=0), d= 0~4 refer to one of 5 preview points;

when taking photos (t=1,2 or3), d=0~7 referring to one of 8 imaging paths.



Description: Set Time-lapse Parameters

Command: “:01STLx[±]nnn[nn]#”

Return: “:10STL1#”

x: “0” set total photo number; “nnnnn” (5 digit) 1 ~ 99999 total photos

“1” set interval angle; [±]nnn (4 digit) -900 ~ +900 (X0.1 degree)

Description: Get azimuth/altitude Step Parameters

Command: ":01GTL#"

Return: ":10GTL±AAAAA±LLLLL#"

±AAAAA azimuth angle, 6 digit: -36000 ~ +36000 (X0.01 degree)

±LLLLL altitude angle, 6 digit: -36000 ~ +36000 (X0.01 degree)

Description: Set Timing Parameters

Command: ":01STTxnnnnnnn#"

Return: ":10STT1#"

x: "0" set delayed start nnnnnnn: 1 ~ 0086400 seconds

"1" set time interval nnnnnnn: 1 ~ 8629999 seconds

"2" set time interval for time-lapse imaging nnnnnnn: 1 ~ 8629999 seconds

Description: Get Timing Parameters

Command: ":01GTTx#"

Return: ":10GTTnnnnnnn#"

x: "0" get delayed start nnnnnnn: 1 ~ 0086400 seconds

"1" get time interval nnnnnnn: 1 ~ 8629999 seconds

"2" get time interval for time-lapse imaging nnnnnnn: 1 ~ 8629999 seconds

Description: Shooting Control

Command: ":01SPCx#"

Return: ":10SPC1#"

x: "0" exit

"1" pause

"2" resuming

"3" software triggering (while waiting for trigger)

"4" previous photo position (while paused)

"5" next photo position (while paused)

Description: iPano Status

Command: ":01GAS#"

Return: ":10GASnTTTTTZZZZx#"

n: sign, "+" or "-"

TTTTT: altitude angle -18000~+18000 (X0.01 degree)

ZZZZZ: azimuth angle 0~36000 (X0.01 degree)

x: "0" stop;

"1" move;

"2" waiting for triggering;

"3" delaying according to timer;

"4" paused;

"5" shooting

Description: Set FOV (Field of View)

Command: ":01SFVnnnn#"

Return: ":10SFV1#"

nnnn: FOV 0~1800 (x0.1 degree)

Description: Get FOV (Field of View)

Command: ":01GFV#"

Return: ":10GFVnnnn#"

nnnn: FOV 0~1800 (x0.1 degree)

Description: Repeat Most Recent Project

Command: ":01SRE#"

Return: ":10SRE1#"

Repeat the most recent panorama project.

Description: Check Most Recent Project

Command: ":01GRE#"

Return: ":10GREn#"

Check the most recent panorama project.

"0" none;

"1" matrix panorama;

"2" 360 panorama;

"3" time lapse

Description: Get Shooting Progress

Command: ":01GPG#"

Return: ":10GPGxxxxmmmmm#"

xxxx: number of photos already taken (1~99999)

mmmmm: total number of photos

Description: Battery Status

Command: ":01GPW#"

Return: ":10GPWxxx#"

xxx: Remaining battery percentage (0 ~ 100)